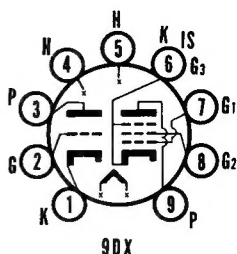


SYLVANIA TYPES 6JE8 8JE8 11JE8



MECHANICAL DATA

Bulb.....	T-6 1/2
Base.....	E9-1, Miniature Button, 9-Pin
Outline.....	6-3
Basing.....	9DX
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

	11JE8 Series	8JE8 Series	6JE8 Parallel
Heater Operation.....	10.9	8.2	6.3 Volts
Heater Current.....	450	600	780 Ma
Heater Warm-up Time.....	11	11	— Seconds
Maximum Heater-Cathode Voltage.....			
Heater Negative with Respect to Cathode.....	200	200	200 Volts
Total D C and Peak.....	100	100	100 Volts
Heater Positive with Respect to Cathode.....	200	200	200 Volts
D C.....			
Total D C and Peak.....			

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode Section	
Grid to Plate.....	4.2 μ f
Input: g to (h+k).....	2.4 μ f
Output: p to (h+k).....	0.4 μ f
Pentode Section	
Grid No. 1 to Plate.....	0.1 μ f Max.
Input: g1 to (h+k+g2+g3+I.S.).....	10 μ f
Output: p to (h+k+g2+g3+I.S.).....	3.6 μ f
Coupling	
Pentode Grid No. 1 to Triode Plate.....	.005 μ f Max.
Triode Grid to Pentode Plate.....	.018 μ f Max.
Pentode Plate to Triode Plate.....	.17 μ f Max.

RATINGS (Design Maximum Values)

Plate Voltage.....	300	330 Volts Max.
Grid No. 2 Supply Voltage.....	—	330 Volts Max.
Grid No. 2 Voltage.....	See 6AM8 Rating Chart	
Plate Dissipation.....	1.0	5 ¹ Watts Max.
Grid No. 2 Dissipation.....	—	2 ¹ Watts Max.
Positive Grid No. 1 Voltage.....	0	0 Volt Max.
Grid No. 1 Circuit Resistance.....		
Fixed Bias.....	0.5	0.25 Megohm Max.
Self Bias.....	1.0	1.0 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

	Triode Section	Pentode Section
Plate Voltage.....	200	250 Volts
Grid No. 2 Voltage.....	—	170 Volts
Grid No. 1 Voltage.....	-2	0 Volts
Cathode Bias Resistor.....	—	82 Ohms
Plate Current.....	4.5	22 Ma
Grid No. 2 Current.....	—	4.0 Ma
Transconductance.....	4200	12,000 μ mhos
Amplification Factor.....	70	—
Plate Resistance (approx.).....	—	140,000 Ohms
Ec1 for Ib = 10 μ a (approx.).....	-5	-10 Volts
Instantaneous Plate Knee Characteristics		
Eb = 60 V; Ec2 = 170 V; and Ec1 = 0 V		
Ib = 48 Ma (approx.) and Ic2 = 12 Ma (approx.)		

NOTE:

- These are design maximum dissipation ratings for television video amplifier applications. The two watts maximum Grid No. 2 Dissipation should not occur simultaneously with the five watts maximum plate dissipation. The two watts maximum Grid No. 2 Dissipation may be operated simultaneously with a Plate Dissipation of 4.0 Watts or 1.5 Watts. Maximum Grid No. 2 Dissipation may be operated simultaneously with a Plate Dissipation of 5.0 Watts.

APPLICATION

The Sylvania Types 6JE8, 8JE8 and 11JE8 are sharp cutoff pentodes, high mu triodes featuring a controlled plate knee characteristic for the pentode section. The triode section may be used as a sync separator and voltage amplifier. The pentode section is designed to serve as a video amplifier. Types 8JE8 and 11JE8 have controlled heater warm-up time for series string operation.

SYLVANIA ELECTRONIC TUBES